

Message Text

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PAGE 01 BERLIN 04382 031343Z
ACTION SY-05

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FM AMEMBASSY BERLIN
TO SECSTATE WASHDC 7706
INFO AMCONSUL FRANKFURT

C O N F I D E N T I A L BERLIN 04382

DEPT. FOR A/SY/OPS/T; FRANKFURT FOR OIC/RTC

E.O. 11652: GDS
TAGS: ASEC
SUBJECT: BELT SYSTEM - MAGNETIC FIELD MEASUREMENTS.

REF: A) STATE 106572, B) FRANKFURT 4596

1. FOLLOWING IS SUMMARY OF PRELIMINARY RESULTS OF MAGNETIC FIELD STRENGTH MEASUREMENTS OF BELT SYSTEM IN AMBASSADOR'S OFFICE.
2. MEASUREMENTS WERE MADE WITH "AC MAGNETIC FIELD EVALUATOR". AN OSCILLOSCOPE WAS USED TO MEASURE PEAK TO PEAK READINGS, WHICH WERE CONVERTED TO RMS FOR CALCULATING FIELD STRENGTH.
3. BECAUSE FIELD EVALUATOR PROBE REQUIRES FIXED-FREQUENCY FIELD, 1590B AMPLIFIER WAS DRIVEN BY AUDIO OSCILLATOR AT 500 HZ, WITH 3 VOLT PEAK TO PEAK SIGNAL. 1590B WAS SET FOR MAXIMUM OUTPUT.
4. MEASUREMENTS WERE MADE AT SIXTEEN LOCATIONS IN OFFICE, WHICH MEASURES APPROX. 19 FEET BY 27 FEET, ALONG THE VERTICAL AXIS, AT THE FLOOR, AND AT 4 FEET AND 7-1/2 FEET ABOVE FLOOR.

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5. FIELD STRENGTHS MEASURED AT FLOOR WERE FAIRLY UNIFORM, WITH MOST READINGS 250 TO 400 MILLIGAUSS. MOST 4 FEET AND 7-1/2 FEET READINGS WERE 50 TO 100 MILLIGAUSS IN CENTER AREA OF ROOM, AND 15 TO 25 AROUND PERIPHERY.
6. INTENDING TO MAKE FIELD STRENGTH MEASUREMENTS OF

BELT SYSTEM IN AMBASSADOR'S STUDY AND COMPILE ALL RESULTS
IN DETAILED REPORT.

7. REQUEST SY/T ADVISE IF ANY ADDITIONAL TESTING IS DE-
SIRED, OR ANY ALTERATIONS WHICH SHOULD BE MADE TO THE
ABOVE TEST SET-UP.

8. FYI: CONSIDERABLE DIFFICULTY WAS EXPERIENCED IN
ATTEMPTING TO SET "ZERO" AND "CALIBRATE" POINTS WITH RFL
MODEL 750A GAUSSMETER. WITH FIELD ACTIVATED, BUT WITH
PROBE IN "ZERO GAUSS CHAMBER", LOWEST SCALE
WHICH METER INDICATOR COULD BE ADJUSTED ON SCALE WAS 0 TO 5
GAUSS. FOR THESE REASONS IT WAS NOT USED FOR THESE
MEASUREMENTS. BOLEN

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